NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 18:34:10 ON 14 MAR 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

0.21

FULL ESTIMATED COST 0.21

FILE 'REGISTRY' ENTERED AT 18:34:25 ON 14 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAR 2007 HIGHEST RN 926304-31-6 DICTIONARY FILE UPDATES: 13 MAR 2007 HIGHEST RN 926304-31-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

Uploading C:\Program Files\Stnexp\Queries\10789008.str

chain nodes :

8 20 21 22 23 24 25 26 29

ring nodes :

1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19

chain bonds :

2-7 2-8 5-20 8-14 20-21 21-22 22-23 22-24 24-25 25-26 26-29

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-9 7-13 9-10 10-11 11-12 12-13 14-15 14-19

15-16 16-17 17-18 18-19

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 22-23 22-24 26-29

exact bonds :

2-7 2-8 5-20 8-14 20-21 21-22 24-25 25-26

normalized bonds :

7-9 7-13 9-10 10-11 11-12 12-13 14-15 14-19 15-16 16-17 17-18 18-19

## Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 29:CLASS

## L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 ST

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 18:34:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED

0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10789008a.str

chain nodes :

7 8 9 10 11 12 13 14 15 16 19

ring nodes : 1 2 3 4 5 6

chain bonds : 2-7 2-8 5-10 8-9 10-11 11-12 12-13 12-14 14-15 15-16 16-19

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 5-6 8-9 12-13 12-14 14-15 15-16 16-19

exact bonds :

2-8 5-10 10-11 11-12

G1:Cb,Cy,Hy

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:Atom 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 19:CLASS

# L3 STRUCTURE UPLOADED

=> d L3 HAS NO ANSWERS

L3

$$G_1$$
 $G_1$ 
 $G_1$ 
 $G_1$ 
 $G_1$ 
 $G_2$ 
 $G_1$ 
 $G_1$ 
 $G_1$ 
 $G_2$ 
 $G_1$ 

STR

G1 Cb,Cy,Hy

Structure attributes must be viewed using STN Express query preparation.

=> s 13 full

FULL SEARCH INITIATED 18:36:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 69 TO ITERATE

100.0% PROCESSED 69 ITERATIONS

SEARCH TIME: 00.00.01

1 SEA SSS FUL L3

=> d 14

1 ANSWERS

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
749251-24-9 REGISTRY
ED Entered STN: 22 Sep 2004
C Cyclohexanepropanoic acid, 4-(2,5-difluorophenyl)-4-[[4-(trifluoroasthyl)phenyl]sulfonyl]-, 4-(nitrooxy)butyl ester, cis-(9CI)
(CA INDEX NAME)
FS STEREOSEARCH
HC C26 H28 F5 N O7 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Relative stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES:IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 347.05 347.26

FILE 'CAPLUS' ENTERED AT 18:36:58 ON 14 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 14 Mar 2007 VOL 146 ISS 12 FILE LAST UPDATED: 13 Mar 2007 (20070313/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s 14

L5 1 L4

=> d 15

Uploading C:\Program Files\Stnexp\Queries\10789008b.str

10 11 11 19

chain nodes :

7 8 9 10 11 12 13 14 19

ring nodes : 1 2 3 4 5 6 chain bonds :

2-7 2-8 5-10 8-9 10-11 11-12 12-13 12-14 14-19

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 5-6 8-9 12-13 12-14 14-19

exact bonds :

2-8 5-10 10-11 11-12

G1:Cb,Cy,Hy

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:Atom 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 19:Atom

L6 STRUCTURE UPLOADED

=> d L6 HAS NO ANSWERS L6 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 16 full
 REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 18:42:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25032 TO ITERATE

100.0% PROCESSED 25032 ITERATIONS SEARCH TIME: 00.00.01

9 ANSWERS

L7

9 SEA SSS FUL L6

`L8

5 L7

=> d l8 1-5 ibib abs hitstr

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1226125 CAPLUS
DOCUMENT NUMBER: 166:7695
ATPI cyclohexyl sulphones and their preparation and use for treatment of cancer
Levis, Hwv David, Harrison, Timothy, Shearman, Mark
Staven
Merck Sharp & Dohme Limited, UK
PCT Int. Appl., 41pp.
CODEN: PIXXD2
PAMILY ACC. NUM. COUNT: 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PA	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
							-									-		
	WO	2006	1231	82.		A2		2006	1123		WO 2	006-	GB50	107		2	0060	516
		2006														_		
			AE,								22	BC.	B.D.	DU	BV	97	Ch	CV.
																FI,		
																KN,		
																MN,		
			MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
			SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG.	US.	UZ.	vc.
			VN.	YU.	ZA.	ZM.	2W											
		RW:	AT,	BE.	BG.	CH.	CY.	CZ.	DE.	DK.	EE.	ES.	FI.	FR.	GB.	GR.	HU.	IE.
																TR.		
																TG.		
																AM.		
									30,	35,	32,	ı,	ou,	Zri,	2.0,	Art,	ne,	ы,
						RU,	10,	ım										
PRIO	RIT:	APP	LN.	INFO	. :											A 2		
									_		GB 2	005-	2153	8		A 2	0051	024
THE	D 6/	MIDCE	101 .			MAD	DAT	146.	7606									

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Sulfones of formula I are disclosed for use in treatment of cancer. Compds. of formula I wherein n is 0 and 1) Z is CN, OH and derivs., CO2H and derivs., and CCNN2 and derivs., RIb is H, Cl-4 alkyl and OH, Rlc is H and Cl-4 alkyl. Arl is (un) substituted Ph and (un) substituted pyridine, Arl is (un) substituted phenyl, and their pharmaceutically acceptable salts are claimed. Example compound cis- and trans-II was prepared by hydride

of III. All the invention compds. were evaluated for their anticancer

of III. All the invention compds. were evaluated for their acceptance activity.

471903-67-0P 471905-40-5P
RL: PRC (Pharmacological activity), RCT (Reactant), SPN (Synthetic preparation), TRU (Therapeutic use), BIOL (Biological study), PREP (Preparation), RACT (Reactant or reagent), USES (Uses) (drug candidate and intermediate) preparation of arry cyclohexyl sulfones useful in the treatment of cancer)

471903-67-0 CAPLUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, ethyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

471905-54-1 CAPLUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)=ulfonyl]-4-(2,5-difluorophenyl)-, ethyl ester, trans- (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

471905-40-5 CAPLUS Cyclohexanepropanoic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, methyl ester, cis- (CA INDEX NAME)

471905-47-2P 471905-54-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(drug candidate; preparation of aryl cyclohexyl sulfones useful in the
treatment of cancer)
471905-47-2 CAPLUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5difluorophenyl)-a-methyl-, ethyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:722921 CAPLUS
DOCUMENT NUMBER: 101:236684
TITLE: Method and materials for treatment of Alzheimer's

Castro Pineiro, Jose Luis UK U.S. Pat. Appl. Publ., 9 pp. CODEN: USXXCO INVENTOR (S):
PATENT ASSIGNEE (S):
SOURCE:

DOCUMENT TYPE: Patent

English 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004171683	A1	20040902	US 2004-789008	20040227
PRIORITY APPLN. INFO.:			GB 2003-4524 A	20030227

PRIORITY APPLN. INFO.: GB 2003-4524 A 20030227
OTHER SOURCE(S): MARPAT 141:236684

AB The invention provides the combined use of an inhibitor of formation or release of \$\tilde{\text{p}}\xspace = \text{ample of } \text{p}\xspace = \text{p}\xspace

(Uses)
(treatment of Alzheimer's disease)
749251-24-9 CAPLUS
Cyclohexanepropanoic acid, 4-(2,5-difluorophenyl)-4-[[4(trifluoromethyl)phenyl]sulfonyl]-, 4-(nitrooxy)butyl ester, cis- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

749251-21-6P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(treatment of Alzheimer's disease)
749251-21-6 CAPLUS
Cyclohexanepropanoic acid, 4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]-, 4-bromobutyl ester, cis- (SCI) (CA INDEX NAME)

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN tive stereochemistry.

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ester
RL: PAC (Pharmacological activity), RCT (Reactant), SPN (Synthetic preparation), TRU (Therapeutic use), BIOL (Biological study), PREP (Preparation), RACT (Reactant or reagent), USES (Uses) (drug candidates, preparation of aryl cyclohexyl sulfones as y-secretase inhibitors useful against Alzheimer's disease) 679422-11-6 CAPLUS Cyclohexanebutanoic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-diflucorphenyl)-a-(methylsulfonyl)-, ethyl ester, cis- (9CI) (CA INDEX NAME)

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:308409 CAPLUS
11UB: 2004:30840P
11UB: 2004:30840P
11UB: 2004:30840P
11UB: 2004:30840P
11UB: 2004:30840P
11UB: 2004:30840P
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAILOT INFO	M-MITON:														
	NO.														
	WO 2004031137														
W:	AE, AG														
	CO, CR														
	GH, GM	, HR,	HU,	ID,	IL,	IN,	15,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,
	LS, LT	, LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO.	NZ,	OM,
	PG, PH	PL,	PT.	RO,	RU,	SC.	SD.	SE.	SG.	SK.	SL.	SY.	TJ.	TM.	TN.
	TR. TT.	TZ,	UA.	UG,	US,	UZ,	VC.	VN.	YU.	ZA.	ZM.	28			
RW	: GH, GM	KE,	LS.	MW.	HZ,	SD,	SL.	SZ.	TZ.	UG.	ZM.	ZW.	AM.	AZ.	BY.
	KG, KZ	MD.	RU.	TJ.	TM.	AT.	BE.	BG.	CH.	CY.	C2.	DE.	DK.	EE.	ES.
	FI, FR	GB.	GR.	HU.	IR.	IT.	LU.	MC.	NT.	PT.	BO.	SF,	ST.	SY,	TD,
	BF, BJ														
CA 250	0964		Al	,	2004	0415	٠,	CA 2	003-	2500	964	1111,	٠,,,	7030	925
AU 200	3267614		Δ1		2004	0423		A11 2	003-	2676	14		5	0030	025
FP 155	1797		11		2001	0713		ED 2	003-	2010				0030	223
WP 155	1797		91		2007	0.13		Er 2	003-	,403	00			0030	323
								-							
Α.	AT, BE	, cn,	DE,	DK,	B0,	FR,	GB,	GK,	11,	ы,	LU,	NL,	SE,	MC,	PT,
TD 200	IE, SI	, ы,	Ľν,	FI,	RO,	MK,	CI,	AL,	TR,	BG,	cz,	EE,	Hυ,	5K	
JP 200	6501292		T.		2006	0112		JP 2	004-	5409	27		2	0030	925
US 200	4122050		A1		2004	0624		US 2	003-	6795	57		2	0031	006
US 710	1895		B2		2006	0905									
PRIORITY AP	PLN. INFO	o.:						GB2	002-	2303	9		A 2	0021	004
								WO 2	003-	GB41	02	1	W 2	0030	925
OTHER SOURCE	E(S):		MARI	TAS	140:	3211	8.0								
GI															

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

Relative stereochemistry.

679432-33-8 CAPLUS
Cyclohexanebutanoic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-a-ethyl-a-(methylsulfonyl)-, ethyl ester, cis-(9CI) (CA INDEX NAME)

Relative stereochemistry.

679432-32-7P, 3-[cis-4-(4-Chlorobenzenesulfonyl)-4-{2,5-difluorophenyl)cyclohexyl]-2-(methanesulfonyl)propionic acid ethyl ester RE: PAC (Pharmacological activity): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES

(Uses)
(drug candidate; preparation of aryl cyclohexyl sulfones as 
y-secretase inhibitors useful against Alcheimer's disease)
679432-32-7 CAPUS
Cyclohexanepropanoic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-diffluorophenyl)-a-(methylsulfonyl)-, ethyl ester, cis- (9CI) (
INDEX NAME)

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN Relative stereochemistry.

471903-67-0, [cis-4-(4-Chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid ethyl ester
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of aryl cyclohexyl sulfones as y-secretase inhibitors
useful against Alzheimer's disease)
471903-67-0 CAPLUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, ethyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

1

AB Title sulfones I [wherein m = 0-1; Z = CN, OR2, CO2R2, or CON(R2)2; R1 = H, alkyl, or OH; R2 and R4 = independently H or (un) substituted alkyl, cycloalkyl(alkyl), alkenyl, or (hetero)aryl; or N(R2)2 or N(R4)2 = independently (un) substituted heterocyclyl; R3 = H or alkyl; or pharmaceutically acceptable salts thereof; were prepared For example, oxidative coupling of 4-chlorothiophanol with 2,5-difluorobenzyl bromide gave 1-[[(4-chlorophanyl)sulfonyl]methyl]-2,5-difluorobenzene. Reaction with Me acrylate and KOBu in THF; followed by heating to 150° for 2 h in a solution of DMSO, Nacl, and H2O afforded
4-(4-chlorophanyl)sulfonyl]-4-(2,5-difluorophenyl)sulfonyl); accetate in the presence of NaH in THF provided the alkylidene derivative (88%), which was reduced with NaBH4 to give (cis)-II (36%). I modulate the processing of amyloid precursor protein by y-secretase and hence are useful in the treatment or prevention of Alzheimer's disease (no data).

14 71903-6-70-9 47905-40-59
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); RACT (Reactant or reagent); USES (Uses) (anti-Alzheimer's agent; preparation of phenylcyclohexyl aryl sulfones for treatment of Alzheimer's disease)

treatment of Alzheimer's disease)
471903-67-0 CAPIUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-{2,5-difluorophenyl}-, ethyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171E: 2003:173575 CAPLUS
1191:221350
INVENTOR(5): Preparation of 1-phenyl-1-(arylsulfonyl)cyclohexanes
for treatment of Alzheimer's disease
Churcher, Ianz Dinnell, Kevin, Harrison, Timothy;
Kerrad, Soniaz Nadin, Alan John Oakley, Paul Joseph;
Shaw, Duncan Edward; Teall, Hartin Richard; Williams,
Brian John Williams, Susannah
Merck Sharp 4 Dohne Limited, UK
PCT Int. Appl., 39 pp.
CODEN: PIXKN2
DOCUMENT TYPE: Patent
LANGUAGE: PIXKN2
PATENT INFORMATION:
2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT	NO.						APPI			DATE						
WO 2003018543					A1 20030306						20020816					
W:	AE,	AG,	AL,	AM,	AT.	AU,	AZ.	BA.	BB,	BG,	BR.	BY,	BZ.	CA.	CH.	CN.
						DK.										
						IN,										
	LT,	LU,	LV,	MA,	MD,	MG,	MK.	MN.	MW,	MX,	MZ,	NO.	NZ.	OM.	PH,	PL.
						SG,			SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,
	UG,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW								
R	: GH,															
						EE,										
	PT,	SE,	SK,	TR,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,
		SN,														
WO 200									2001-			20010821				
w:	AE,	ΑG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
	co,	CR,	cu,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ĒS,	FI,	GB,	GD,	GΕ,	GH,
						IN,										
						MG,										
						SI,	sĸ,	SL,	ŢJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,
70.00				ZA,												
,Kw	: GH,	UM,	KE,	LS,	MW,	MZ,	SD,	SL,	52,	TZ,	UG,	zw,	AT,	BE,	CH,	CY,
						GB,										BF,
CA 245	6420	Cr,	cu,	21	un,	GA,	000,	GΩ,	~w,	mr,	MK,	, AN	SN,	TD,	TG	
EP 142				A1 20030306 A1 20040526					ED 2	002-	2430 7666	20020816 20020816				
	AT,		CH			2004	ED.	C.D.	CP 2	17	1303	94	***	cπ <sup>2</sup>		
•••	TE.	SI	LT	īV	FI.	RO,	MY.	~	At.	TD.	BC,	C2,	EE,	or,	MC,	F1,
BR 200	20116	35		Ä		2004	0713	C1,	RD 7	002-	1163	۲۵,	EB,		0020	016
HU 200	40124	1		A2	2004	1129		HII 2	004-	1241	20020916					
JP 2005501120						2005	0113		JP 2	003-	5232	20020816				
JP 2005501120 JP 3711131 NZ 530581						2005	1026		••••			•		-	0020	010
NZ 530	581			A		2006	0428		N2 2	002-	5305	81		,	ດດວດ	816
ZA 2004000406						2004	1028		ZA 2	004-	406	20040120				
IN 200										004-		5			0040	
IN 2004CN00345 NO 2004001185						2004	0319		NO 2	004-	1185			2	0040	319
ORITY APPLN. INFO.:										001-			- 1	A 2		
									WO 2	001-	<b>GB37</b>	41			0010	
										001-				A 2	0010	405
									WO 2	002-	GB38	06	-	¥ 2	0020	816
ER SOURCE(S):					PAT	138:	2213	50								

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

471905-40-5 CAPLUS

Cyclohaxanepropanoic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, methyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

471905-47-2P 471905-54-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(anti-Alzheimer's agent; preparation of phenylcyclohexyl aryl sulfones

treatment of Alzheimer's disease)
471905-47-2 CAPIUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-a-methyl-, ethyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

471905-54-1 CAPLUS Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, ethyl ester, trans- (CA INDEX NAME)

#### Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS ON STN US 2005c31365 GB 2001-8591 GB 2001-8591 GB 2001-8591 GB 2001-633741 W0 2001-633741 W0 2001-633741 W0 2001-633745 W1 2002-623996 US 2002-223993 (Continued)
5 20051028
A 20010405
A 20010821
W 20010821
W 20020816
A1 20020820

OTHER SOURCE(S):

MARPAT 137:310695

0==0 Ar1

Title compds. I [Ri and R2 together from a (un) substituted saturated or unsatd. ring of 4-7 atoms of which at most 2 are selected from N, O, and S with the remaining being Cr Arl and Ar2 independently equal (un) substituted aryl or heteroaryl] and their pharmaceutically acceptable salts are disclosed as modulators of gamma secretase (no data). Thus, II was prepared via condensation of 4-chlorothiophenol with 2,5-difluorobenzyl bromide, oxidation of intermediate thioether and subsequent cyclization with Me acrylate. As modulators of the action of g-secretase, I are useful in the treatment or prevention of Alzheimer's disease. 471903-67-09 471905-40-5P 471905-47-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic. preparation); THU (Therapeutic use), BIOL (Biological study); PREP (Preparation); ThO (Therapeutic use), BIOL (Biological study); PREP (Preparation); preparation of aryl sulfones as modulators of gamma secretase useful for the treatment of Alzheimer's disease)
471903-67-0 CAPIUS
Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl)-4-(2,5-difluorophenyl)-, ethyl ester, cis- (CA INDEX NAME)

### Relative stereochemistry.

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2002:793593 CAPLUS DOCUMENT NUMBER: 137:310695
TITLE: Preparation of aryl sulfones

INVENTOR(S):

CAPLUS
137:310695
Preparation of aryl sulfones which modulate the action of gamma secretase
Castro Pineiro, Jose Luis; Churcher, Ian; Dinnell,
Kevin; Harrison, Timothy; Kerrad, Sonia; Nadin, Alan
John; Oskley, Paul Joseph; Owens, Andrew Pate; Shaw,
Duncan Edward; Teall, Hartin Richard; Villiams, Brian
John; Villiams, Susannah
Merck Sharp & Dohme Limited, UK
PCT Int. Appl., 159 pp.
CODEN: PIXXO2
Patent
English
2

PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT	NO.			KIND DATE					APPL	ICAT		DATE					
					A1 20021017													
WO	WO 2002081435						2002	1017		WO 2	001-		20010821					
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC.	EE,	ES,	FI,	GB,	GD.	GE.	GH.	
		GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KE.	KG.	KR.	KZ.	LC,	LK.	LR.	LS.	
		LT,	LU,	LV,	MA,	MD,	MG.	MK,	MN.	MW.	MX.	MZ.	NO.	NZ.	PH.	PI	PT.	
		RO,	RU,	SD,	SE,	SG,	SI.	SK,	SL.	TJ.	TM.	TR.	TT.	TZ.	UA.	UG.	us.	
		υz,	VN,	YU,	ZA,	ZW												
	RW:	GH.	GM.	KE.	LS.	MW.	MZ.	SD,	SI	52.	TZ.	UG.	24.	AT.	RF	CH	CV	
		DE.	DK.	ES.	FI.	FR.	GB.	GR,	IR.	IT.	LU.	MC.	NI.	PT.	SE,	TD.	BF.	
		BJ.	CF.	CG.	CI.	CM.	GA.	GN,	GO.	GW.	MI.	MB.	NE.	SN	TD,	TG	μ,	
CA	2442	882			Al	,	2002	1017	- 2.7	CA 2	001-	2442	992	J.11,	***	0010	921	
EP	1379	498			A1		2004	0114		ED 2	001-	9592	47		20010821 20010821			
	R:			CH.	DE.	DK.	ES.	FR,	GB	GD.	77	777	111	MIT		47	DT	
		IE.	SI	LT	LV	RI.	PO,	MK,	CV,	AT.	TD.	ш.,	шо,	WL,	JE,	mc,	F1,	
JP	2004	5334	28	,	т,	,	2004	1104	٠.,	ישם מד	72	E704	22		•			
	2456				ā1		2003	0306		CB 2	002-	3134 346 <i>6</i>	430		2	0010	821	
	2003		43		21		2003	0300		UA 2	002-		20010821 20020816 20020816					
	W:			8.7	***		2003	AZ,		WU Z	002-	929	00		2	0020	816	
		CO.	CD,	an,	ar,	WI,	AU,	AL,	DA,	ъь,	BG,	BR,	BY,	в2,	CA,	CH,	CN,	
		CU,	un,	1711	12,	DE,	DK,	DM,	UZ,	EC,	EE,	E5,	FI,	GB,	GD,	GE,	GH,	
		un,	nn,	no,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,	
		DI,	LO,	TA.	ma,	MD,	MG,	MK.	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	PL,	
		71,	ĸo,	KU,	50,	SE,	SG,	SI,	5K,	SL,	TJ,	TM,	TN,	TR,	TT,	ΤZ,	UA,	
	DET.	ou,	02,	VC,	VN,	YU,	ZA,	ZM,	ZW									
	KW:	un,	un,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	BG,	
		CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	
		PT,	SE,	5K,	TR,	BF,	ВJ,	CF,	CG,	CI,	CH,	GA,	GN,	GQ,	G₩,	ML,	MR,	
			SN,	TD,														
EP	1421				A1		2004	0526		EP 2	002-	7585	42		2	0020	816	
	R:	AT,	BE,	сн,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK			
BR	2002	0116	35		A		2004	0713		BR 2	002-	1163	5		21	0020	816	
CN	1545	501			A		2004	1110		CN 2	002-		20020816					
HU	2004	0124	1		A2		2004	1129	1	HU 2	004-		20020816 20020816 20020816 20020816					
JP	2005	5011	20		T		2005	0113		JP 2	003-	5232	07		2	0020	816	
JP	3711	131			B2		2005	1026										
NZ	5305	31			A		2006	0428	1	NZ 2	002-	53051	3 1		. 26	วกวกเ	116	
US	2003	1144	96		A1		2003	0619	i	US 2	002-	2239	93		2	1020	120	
US	6984	563			B2		2006	1110										
US	1545 2004 2005 3711 5305 2003 6984 2004	1164	04		A1		2004	0617	1	15 2	003-	737	77		21	1031	101	
IN	20040	NOO:	345		A		2005	1223		IN 2	004-0	"N34			21	2021	210	
NO	20040	0011	35		A		2004	0617 1223 0319	1	NO 2	004-	1185	•		21	1040	210	
					•••					2		1133			21	JU4U.	313	

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 471905-40-5 CAPLUS Cyclohexanepropanoic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, methyl ester, cis- (CA INDEX NAME)

Relative stereochemistry.

471905-47-2 CAPLUS

Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-a-methyl-, ethyl ester, cis- (CA INDEX NAME)

Relative stereochemistry,

471905-54-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); Blot (Biological study); PREF (Preparation); USES
(drug candidate; preparation of aryl sulfones as modulators of gamma
secretase useful for the treatment of Alzheimer's disease)
471905-54-1 CAPLUS
CYclohexaneaestic acid, 4-[(4-chlorophenyl)sulfonyl)-4-(2,5difluorophenyl)-, ethyl ester, trans- (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

REFERENCE COUNT:

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT